

U. S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
ASSISTANT SECRETARY FOR HOUSING-FEDERAL HOUSING COMMISSIONER

TO: DIRECTORS, SINGLE FAMILY DIVISION

Series and Series Number: (Supersedes  
issued dated July 22, 1992)

MATERIALS RELEASE

NO. 840e

ISSUE DATE September 18, 1995

REVIEW DATE September 18, 1998

SUBJECT: 1. Product Thermo-ply Nonstructural Wall Sheathing and  
Roof Underlayment

2. Name and Address  
of Manufacturer Simplex Products Division  
P. O. Box 10  
Adrian, MI 49221

Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement, approval or acceptance by HUD of the described product, and any statement or representation, however made, indicating such approval, endorsement or acceptance by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

USE: As a nonstructural board for walls and as a roof underlayment in conjunction with concrete or clay roofing tiles.

DESCRIPTION:

There are two types of nonstructural Thermo-ply laminated kraft paperboard covered by this Materials Release (MR):

1. "Weatherweight" is a nonstructural board with aluminum foil, or polyethylene or a kraft/polyethylene/kraft laminate or a combination of these on both sides. The panel size is 48" x 96".
2. "Roof Underlayment" is a nonstructural board with aluminum foil on one side and a white polyethylene film on the opposite side. The panel size is 48" x 100"

REQUIREMENTS:

The Thermo-ply laminated kraft paperboard shall be in compliance with the requirements in Table 1.

TABLE 1. REQUIREMENTS FOR NONSTRUCTURAL THERMO-PLY LAMINATED KRAFT PAPERBOARD

Characteristics	Value	Test Method
Thickness, min.	0.074 in.	ASTM C 209
Tensile strength, average lengthwise	5000 psi	ASTM C 209
crosswise	1600 psi	
Water absorption, max.	12 %	ASTM C 209
Linear expansion, max.	0.5 %	SAE J 315b
Vapor transmittance, max.	0.88 perms	ASTM E 96
Mullen burst strength, min.	300 psi	ASTM D 2529

INSTALLATION:

1. The Thermo-ply laminated kraft paperboard "Weatherweight" and "Roof Underlayment" shall be installed according to the manufacturer's instructions.
2. These products shall not be used for structural applications.
3. All nails and staples used on these boards shall be flush with the surface and not cut the surface.
4. "Weatherweight" shall not be used as a nailing base.
5. "Roof Underlayment" shall not be used as a walking surface.
6. "Weatherweight" shall be attached to the frame with 1-1/8" galvanized steel roofing nails or 1-1/8", 16 gauge, 7/16" minimum crown staples. Fasteners shall be spaced 6" o.c. along the edge of the panel and 12" o.c. along the intermediate supports. "Weatherweight" sheathing joints shall be butted or lapped over studs, plates, or solid blocking.
7. "Roof Underlayment" shall be installed directly on rafters with the long dimension perpendicular to the rafters. Supporting strips (1" x 4" minimum) shall be installed on top of the underlayment for holding the roofing tiles.

8. The "Roof Underlayment" shall be installed with the white polyethylene side up and attached with 16 gauge, 1" long, 3/8" minimum crown galvanized steel staples or 1" long galvanized steel roofing nails 12" o.c.
9. The "Roof Underlayment" shall have a minimum of 2" overlap horizontally, and an overlap of 3-3/4" vertically.

CERTIFICATION:

Simplex Products Division certifies that the "Weatherweight" and "Roof Underlayment" produced in conformance to this MR, are in compliance with a validation program at RADCO, Inc. in accordance with the Code of Federal Regulations, 24 CFR 200.935. RADCO shall inspect the manufacturer's facility every year at the plant to assure that the initially accepted quality control procedures are being followed. Four samples of this product shall be selected and tested each year to validate the manufacturer's conformance to the requirements of this MR. Each piece of wall sheathing or roof underlayment certified as conforming to this MR, shall be labeled with the following information:

1. The RADCO validation mark.
2. The manufacturer's name.
3. The manufacturer's conformance to this MR.

WARRANTY:

Simplex Products Division warrants Thermo-ply laminated kraft paperboard for four (4) years, under normal use, against defects or poor performance. Should any defect or poor performance occur, Simplex Products Division will make a pro-rata allowance for the replacement of the defective product.

MANUFACTURER'S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits the manufacturer to fulfill, as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.
2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.

3. When requested, provide the Office of Manufactured Housing and Regulatory Functions, Manufactured Housing and Construction Standards Division, HUD Headquarters, with a representative list of properties, in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

EVALUATION:

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for a renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to HUD Headquarters. Appropriate user fees shall be sent to:

U. S. Department of Housing and Urban Development  
Technical Suitability of Products Fees  
P. O. Box 954199  
St. Louis, MO 63195-4199

The holder of this MR may apply for revision at any time prior to the Review Date. The revision may be in the form of a supplement to the MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted in accordance with Code of Federal Regulations 24 CFR 200.934, "User Fee System for the Technical Suitability of Products Program," and current User Fee Schedule.

CANCELLATION:

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the MR. HUD will notify the manufacturer that the MR may be canceled when:

1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system,

2. the manufacturer has changed its organizational form without notifying HUD, or
3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice of the specific reasons for cancellation, and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a canceled document.

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This Materials Release is issued solely for the captioned firm, and  
is not transferable to any person or successor entity.  
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